LOG HOME SPECIFICATIONS
Coconino County Building Department

1. All logs used in log construction shall be graded and stamped by a certified lumber grading agency, Logs which will be used for the walls do not require a stamp provided a letter is submitted by the supplied identifying the grade, species, and moisture content of the log.

2. Plans for log homes or log structures shall include:

    a. Species and grade of logs used.
    b. Moisture content of logs, if the moisture content of the logs is excessive, greater than 19%, the home shall be designed for settlement and the plans shall show the methods and details for that purpose.
    c. Method of installation for logs.
    d. Types of fasteners used and spacing requirements.
    e. Provisions for settling at all wall openings, load bearing posts, fireplaces, interior frame partitions, staircases, plumbing lines and all non-settling portions of the building.
    f. Type pf materials and methods used to seal and chink the logs.

3. Additional plans required for log homes shall include the architectural plans for a typical single family dwelling.

4. Plans must be stamped by a professional architect or civil / structural engineer licensed to practice in the state of Arizona when:

    a. Log structural members are used for other than wall logs. i.e.: main ridge beams, roof beams, rafters, roof purlins, posts, floor girders, floor joist, or other similar applications.
    b. The log structure exceeds two stories in height.

5. Plans required to be sealed by an architect or engineer, must contain the following information:

    a. The grade, species and moisture content of the structural logs.
    b. The fiber bending stress value of the logs.
    c. The design loads for the roof, floor and deck log members.
    d. Engineering calculations for all applicable log structural members.

6. Provisions shall be made for all plumbing, electrical and mechanical in solid log construction. The plans shall show details on the installation of these systems.

7. The Building Official may request an engineering analysis on any log structure where deemed necessary